



Los Angeles Valley College Spring, 2016

Math 270 Linear Algebra

Section 3426

Time: MW; LARC 212; 5:00 PM — 6:25 PM

No Classes: 2/15, 2/17, 3/7, 3/23, 4/4, 4/6, 5/18, 5/30

Instructor: Adam H. Littig

Email: littigah@lavc.edu

Office: MS 106A

Phone: 818-947-2589

Important Dates: Drop classes without incurring or with refund of

enrollment fees—Sunday, 2/21/2015; Last day to Add or Audit—Friday, 2/19/2015;

Drop classes without receiving a “W”— Sunday, 2/21/2015;

Elect Pass/No-Pass—Friday, 3/11/2015; Drop classes with a “W”— Sunday, 5/8/2015.

Required Materials: *Elementary Linear Algebra with Applications*, 9th Edition, by Bernard Kolman and David R. Hill, ISBN 9780132296540.

Supplementary Materials: An inexpensive, non-programmable, non-graphing, scientific calculator. This calculator will be the only calculator allowed for exams. No cell phones!

Prerequisite: A grade of C or better in Math 266 or Math 262.

Student Contact Hours:

MW 11:05A—11:20A MS110↔MS114

MW 12:45P—1:00P MS114↔MS111

MW 4:00P—5:00P LARC 212

M 6:25P—9:45P LARC 212↔MS106A

Catalog Description: This course develops the techniques and theory needed to solve and classify systems of linear equations. Solution techniques include row operations, Gaussian elimination, and matrix algebra. Investigates the properties of vectors in two and three dimensions, leading to the notion of an abstract vector space. Vector space and matrix theory are presented including topics such as inner products, norms, orthogonality, eigenvalues, eigenspaces, linear transformations, and diagonalization. Selected applications of linear algebra are included.

Plagiarism and Academic Dishonesty: Plagiarism is the use of others’ words and/or ideas without clearly acknowledging their source. When you incorporate those words and ideas into your own work, you must give credit where credit is due. Plagiarism, intentional or unintentional, is considered academic dishonesty and is not tolerated. Anyone found to be plagiarizing or cheating on assignments (e.g., copying or giving answers, using ‘crib’ sheets, etc.) will (1) receive a zero (fail) on the assignment, and (2) be referred to the Vice President of Student Services for further disciplinary action, following due process. For further information on plagiarism, go to the Writing Center website (<http://www.lavc.edu/writingcenter/handouts/plagiarism.html>) and refer to the STANDARDS OF STUDENT CONDUCT AND DISCIPLINARY ACTION in the current Schedule of Classes and Catalog.

Homework: Homework is an extremely important part of learning mathematics. It is nearly impossible to absorb mathematical concepts by merely watching others complete problems or explain concepts. All odd problems are always assigned for each section that is covered in class. There are eight (8) homework assignments corresponding to the table at the right. I will choose ANY six (6) questions from the each homework assignment and grade all six (6). The five (5) highest scores shall be added together for a maximum score of twenty (20) points on each homework assignment. I do not believe that any homework question can be completed without showing computations or a proof. If there are questions that can be completed “in your head,” they will not be selected as one of the six (6) graded questions. Homework assignments are due in class(!), on paper(!), individually(!!!), and handwritten(!!!!) on the day that the assignment is listed on the course calendar. Homework may be completed at any time prior to the due date; however, homework may ONLY be turned in on the day listed in the course calendar.

Homework	ALL ODD QUESTIONS!!!
HW1	: 1.1 1.2 1.3 1.4 1.5 1.6
HW2	: 2.1 2.2 2.3 2.4
HW3	: 3.1 3.2 3.3 3.4 3.5
HW4	: 4.1 4.2 4.3 4.4 4.5
HW5	: 4.6 4.7 4.8 4.9
HW6	: 5.1 5.3 5.4 5.5
HW7	: 6.1 6.2 6.3 6.5
HW8	: 7.1 7.2 7.3 8.1

Tests: There are four (4) tests in this class:

Test #1	Chapters 1 & 2	Wednesday, March 9, 2016	
Test #2	Chapters 3 & 4	Wednesday, April 20, 2016	
Test #3	Chapters 5, 6 & 7	Monday, May 23, 2016	
Final	Chapters 1-8	Wednesday, June 01, 2016	4:30 PM – 6:30 PM

Exams are designed to allow students to demonstrate mastery of the topics presented in the course. Exams will be administered in class consisting only of fill-in questions.

Make-Up/Late work: No makeup exams, extra credit, quizzes, or homework will be administered or accepted without prior arrangement. No late work will be accepted.

Partial Credit: All partial credit is a gift—say thank you!

How to Succeed in this Course: In every college course, students are expected to study, do homework, complete papers, etc. outside of class. State standards state a unit of credit should require 3 hours of work per week by the student, thus a 3 unit course should demand, in addition to the traditional 3 hour lecture, 6 hours of reading, writing, lab and/or activities. I strongly recommend scheduling this time. I also strongly recommend that students spend a minimum of one (1) hour per day and a maximum of three (3) hours per day on math. I also recommend taking a short break after every hour. Some students find these recommendations shocking, but consider the fact that math is much more like a sport or a musical instrument than any other subject. Is one hour per day even enough time to practice football or jam with your garage band? While practicing a sport or an instrument, do you text, Facebook, tweet, talk on the phone, watch TV, change diapers, make dinner, etc.?

Student Learning Outcomes: Upon successful completion of this course, students will be required to prove mathematical statements where they must understand the statement, state logical arguments, and justify each step in the proof.

Grading:

	Quant	Points	Ext	%
Homework	8	20	160	23%
Test #1	1	100	100	14%
Test #2	1	100	100	14%
Test #3	1	100	100	14%
Final	1	250	250	35%
Grand Total			710	100%

	Points	Percent
A	639 - 710	90.0% - 100.0%
B	568 - 638	80.0% - 89.9%
C	497 - 567	70.0% - 79.9%
D	426 - 496	60.0% - 69.9%
F	0 - 425	0.0% - 59.9%

Final Grade Calculation: Mathematics is a journey. Sometimes it is like a walk through Central Park on a beautiful morning with birds chirping and flowers blooming. Sometimes it is like running a marathon, uphill, through wet, soft mud. Challenges and difficulties abound. I strongly believe that students should be rewarded for completing their journey; therefore, if you earn a grade on the final exam that exceeds your average grade for the entire course, your overall course grade will be the grade you earned on your final exam. This does not mean that students can sign up now, cut class until the final, and show up again at the final exam. Please see the attendance regulations for more information.

DISCLAIMER - ADULT CONTENT IS COVERED IN THIS COURSE: Please be advised that you have enrolled in a college-level course. The content of the course, and the discussions surrounding the lessons, may contain controversial, sexual, religious and political content, or otherwise thought-provoking topics. We reserve the right to edit inappropriate language that may appear in this course.

DISCLAIMER – SUBJECT TO CHANGE: Please be advised that this syllabus is subject to change at any time at the sole discretion of the instructor.

Attendance Regulations: The only students who may attend classes are those who have been admitted to the college and are in approved active status. Students are expected to attend every meeting of all classes for which they are registered. Violation of this regulation may result in exclusion from class as specified in Administrative Regulation E-13. Provisions of Administrative Regulation E-13 include the following:

1. Students who have registered for a class and who do not attend the first meeting of the class forfeit their right to a place in the class. Special circumstances may be considered by the instructor.
2. Whenever absences in hours exceed the number of hours the class meets per week, the instructor will consider whether there are mitigating circumstances which may justify the absences. If the instructor determines that such circumstances do not exist, the instructor may exclude the student from the class.
3. Three cases of tardiness may be considered equivalent to one absence.
4. It is the student's responsibility to consult with an instructor regarding any absences that would alter the student's status in the class. Students enrolled in a course who fail to attend the first class meeting may be dropped from the course by the instructor. Students who will miss the first class meeting must advise the instructor of the absence prior to the first class meeting in order to be assured that they will remain enrolled in the class.

Students are ultimately responsible for dropping the class should they choose to do so. Failure to do so may result in a grade of "F" in the class.

Accommodation Statement: If you are a student with a disability requiring classroom accommodations, and have not contacted SSD, do so in a timely manner. SSD is located in the Student Services Annex, Room 175 or call SSD at (818) 947-2681 or TTD (818) 947-2680 to meet with a SSD counselor. If SSD has already sent the memo to instructor confirming accommodations required by student for this class, please meet with me to discuss arrangements.

Financial Aid: Financial Aid is available! Call (818) 947-2412. Go to the Financial Aid Office in the Student Services Center, first floor. For more info: <http://www.lavc.edu/financialaid/index.html>.

**Tentative Schedule With Individual Homework, Quizzes, & Exams
Math 270, Linear Algebra, Section 3426, MW 5:00 PM - 6:25 PM**

Monday, February 08, 2016	Tuesday, February 09, 2016	Wednesday, February 10, 2016	Thursday, February 11, 2016
Syllabus		1.1, 1.2	
Monday, February 15, 2016	Tuesday, February 16, 2016	Wednesday, February 17, 2016	Thursday, February 18, 2016
NO CLASS		NO CLASS	
Monday, February 22, 2016	Tuesday, February 23, 2016	Wednesday, February 24, 2016	Thursday, February 25, 2016
1.3, 1.4		1.5, 1.6	
Monday, February 29, 2016	Tuesday, March 01, 2016	Wednesday, March 02, 2016	Thursday, March 03, 2016
2.1, 2.2, HW1		2.3, 2.4	
Monday, March 07, 2016	Tuesday, March 08, 2016	Wednesday, March 09, 2016	Thursday, March 10, 2016
NO CLASS		Test #1 Chapters 1, 2, HW2	
Monday, March 14, 2016	Tuesday, March 15, 2016	Wednesday, March 16, 2016	Thursday, March 17, 2016
3.1, 3.2		3.3, 3.4	
Monday, March 21, 2016	Tuesday, March 22, 2016	Wednesday, March 23, 2016	Thursday, March 24, 2016
3.5, 4.1		NO CLASS	
Monday, March 28, 2016	Tuesday, March 29, 2016	Wednesday, March 30, 2016	Thursday, March 31, 2016
4.2, 4.3, HW3		4.4, 4.5	
Monday, April 04, 2016	Tuesday, April 05, 2016	Wednesday, April 06, 2016	Thursday, April 07, 2016
NO CLASS		NO CLASS	
Monday, April 11, 2016	Tuesday, April 12, 2016	Wednesday, April 13, 2016	Thursday, April 14, 2016
4.6, 4.7, HW4		4.8, 4.9	
Monday, April 18, 2016	Tuesday, April 19, 2016	Wednesday, April 20, 2016	Thursday, April 21, 2016
Review, HW5		Test #2 Chapters 3, 4	
Monday, April 25, 2016	Tuesday, April 26, 2016	Wednesday, April 27, 2016	Thursday, April 28, 2016
5.1, 5.3		5.4, 5.5	
Monday, May 02, 2016	Tuesday, May 03, 2016	Wednesday, May 04, 2016	Thursday, May 05, 2016
6.1, 6.2, HW6		6.3, 6.5	
Monday, May 09, 2016	Tuesday, May 10, 2016	Wednesday, May 11, 2016	Thursday, May 12, 2016
7.1, 7.2, HW7		7.3, 8.1	
Monday, May 16, 2016	Tuesday, May 17, 2016	Wednesday, May 18, 2016	Thursday, May 19, 2016
Review, HW8		NO CLASS	
Monday, May 23, 2016	Tuesday, May 24, 2016	Wednesday, May 25, 2016	Thursday, May 26, 2016
Test #3 Chapters 5, 6, 7		Review	
Monday, May 30, 2016	Tuesday, May 31, 2016	Wednesday, June 01, 2016	Thursday, June 02, 2016
NO CLASS		FINAL EXAM	
NO CLASS		4:30 PM - 6:30 PM	
NO CLASS		Chapters 1 - 8	